

Notice of Allowability

Application No.

09/879,133

Applicant(s)

EDA ET AL.

Examiner

Charles Rones

Art Unit

2164

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to interview of December 20, 2004.
2. ☒ The allowed claim(s) is/are 1-7.
3. ☒ The drawings filed on 13 June 2001 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☒ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

C. Rones
Charles Rones
Primary Examiner
Art Unit: 2164

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with James Strom on December 16, 2004.

The application has been amended as follows:

1. (previously presented) A database transition system for using an existing persistent relational database to create a persistent object database, where the relational database persistently stores a set of data as relational data and where the object database persistently stores objects as database entities corresponding to the relational data without using the relational database, said database transition system comprising:

a relational database (RDB) definition information extracting unit extracting RDB definition information from an RDB repository storing the relational database and describing therein definition information of the relational database, the definition information describing at least tables in the relational database, where the relational database is a transition object from which the object database is to be created; and

a repository creating unit creating an object database (ODB) repository describing therein definition information of the object database associated with the RDB definition information in accordance with the RDB definition information extracted by said RDB definition information extracting unit and creating a correlation information repository defining mutual relationship between the RDB definition information and ODB definition information.

2. (previously presented) A database transition system according to claim 1, wherein said database transition system further comprises data transition unit converting data of the relational database into the object database in accordance with the correlation information repository created by said repository creating unit.

3. (previously presented) A database transition system according to claims 1, wherein said database transition system further comprises an application program conversion unit converting an application program described in a relational database based language into an application program described in an object database based language in accordance with the correlation information repository created by said repository creating unit.

4. (currently amended) A program storage medium storing a database transition processing program for ~~changing over using~~ an existing persistent relational database to create a persistent an-object database, where the relational database persistently stores a set of data as relational data and where the object database persistently stores objects as database entities corresponding to the relational data without using the relational database,

wherein said database transition processing program comprises:

an RDB definition information extracting unit extracting RDB definition information from an RDB repository storing the relational database and describing therein definition information of the relational database, the definition information describing at least tables in the relational database, where the relation database ~~which is a transition object to the~~ from which the object database is to be created; and

a repository creating unit creating an ODB repository describing therein definition information of the object database associated with the RDB definition information in accordance with the RDB definition information extracted by said RDB definition information extracting unit and for creating correlation information repository defining mutual relationship between the RDB definition information and ODB definition information.

5. (previously presented) A program storage medium according to claim 4, wherein said database transition processing program further comprises a data transition unit converting data of the relational database into the object database in accordance with the correlation information repository created by said repository creating unit.

6. (previously presented) A program storage medium according to claims 4, wherein said database transition processing program further comprises an application program conversion unit converting an application program described in a relational database based language into an application program described in an object database based language in accordance with the correlation information repository created by said repository creating unit.

7. (previously presented) An automated method for changing over an existing relational database to a new and separate persistent object database where the relational database persistently stores a set of data as relational data and where the object database persistently stores objects as database entities corresponding to the relational data without using the relational database, said method comprising:

automatically extracting RDB definition information from an RDB repository describing therein definition information of the relational database, the definition information describing at least tables in the relational database, which is a transition object from which the object database is to be created; and

automatically creating an ODB repository describing therein definition information of the object database associated with the RDB definition information in accordance with the extracted RDB definition information and creating a correlation information repository defining mutual relationship between the RDB definition information and ODB definition information.

Claims 8-11 are cancelled.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Charles Rones whose telephone number is 571-272-4085. The examiner can normally be reached on Monday-Thursday 8am-4pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 571-272-4083. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Art Unit: 2164

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Charles Rones
Primary Examiner
Art Unit 2164

December 22, 2004